

U.S. ENVIRONMENTAL PROTECTION AGENCY  
 CLP Sample Management Office  
 P.O. Box 818 - Alexandria, Virginia 22313  
 Phone: 703/557-2490 - FTS/557-2490

SAS Number

## SPECIAL ANALYTICAL SERVICES



3057902

## Client Request

☒ Regional Transmittal

☐ Telephone Request

- A. EPA Region/Client: Region 10
- B. Authorized By: Bruce Woods (206) 553-1193
- C. Prepared By: Laura Castrilli (206) 553-4323
- D. Date of Request: March 8, 1991
- E. Site Name: Ridgefield Brick and Tile (RBT)  
Ridgefield, Washington
- F. 2 digit Superfund site identifier: N/A

Please provide below a description of your request for Special Analytical Services under the Contract Laboratory Program. In order to most efficiently obtain laboratory capability for your request, please address the following considerations, if applicable. Incomplete or erroneous information may result in a delay in the processing of your request. Please continue response on additional sheets, or attach supplementary information as needed.

## 1. General description of analytical service requested:

The requested analytical service will be used to determine the concentration of chromium and arsenic in ground water (System No. 1) and leachate (System No. 2) at RBT.

## 2. Definition and number of work units involved (specify whether whole samples or fractions; whether organics or inorganics; whether aqueous or soil and sediments; and whether low, medium or high concentration):

This will be a split-sampling event.

Six unfiltered aqueous environmental samples, two unfiltered aqueous duplicate samples, and two unfiltered aqueous equipment rinsate field blanks will be received to analyze for total arsenic and chromium (a total of 10 unfiltered samples/blanks). From previous sampling data, these unfiltered samples and blanks are expected to contain low concentrations of arsenic and chromium.

Similarly, six filtered aqueous environmental samples, two filtered aqueous duplicate samples, and two filtered aqueous equipment rinsate field blanks will be received to analyze

for dissolved arsenic and chromium (a total of 10 filtered samples/blanks). From previous sampling data, these filtered samples and blanks are expected to contain low concentrations of arsenic and chromium.

3. Purpose of analysis (specify whether Superfund (enforcement or remedial action), RCRA, NPDES, etc.):

The purpose of this analysis will be to supply supporting analytical data to EPA to aid in characterizing the RBT site. EPA is considering a clean closure option for the RBT landfill.

4. Estimated date(s) of collection: March 27 and 28, 1991

5. Estimated date(s) and method of shipment:

Samples will be shipped by Federal Express on March 27 and 28, 1991 following each day's sampling activities.

6. Number of days analysis and data required after laboratory receipt of samples:

Samples received to analyze for dissolved chromium and arsenic should be field-filtered and preserved with  $\text{HNO}_3$  to a pH of <2. Those samples taken to analyze for total chromium and arsenic should also be preserved with  $\text{HNO}_3$  to a pH of <2. Analysis should occur within 6 months of collection.

7. Analytical protocol required (attach copy if other than a protocol currently used in this program):

The protocols used for these analyses have been taken from Methods for Chemical Analysis of Water and Wastes (EPA-600/4-79-020). These include Method 218.2 for chromium and Method 206.2 for arsenic. Copies of these methods are attached to this SAS request.

8. Special technical instructions (if outside protocol requirements, specify compound names, SAS numbers, detection limits, etc.):

No special techniques will be required other than those specified by Methods 218.2 and 206.2.

9. Analytical results required (if known, specify format for data sheets, QA/QC reports, Chain-of-Custody documentation, etc.) If not completed, format of results will be left to program discretion.

Data will be reported in the standard Contract Laboratory program Routine Analytical Service format.

## 11. Name of sampling/shipping contact:

Gary Bruno  
PRC Environmental Management, Inc.

Phone: 206/624-2692

12. Data Requirements

Parameter	Quantitation Limit	Precision (percent or Concentration)
Arsenic	1 $\mu$ g/L	$\pm 10$
Chromium	1 $\mu$ g/L	$\pm 10$

13. QC Requirements

Audits required	Frequency of Audits	Limits (percent or Concentration)
Method Blanks	Once per 20 samples or once per 12 hours of continuous assay.	$\pm 10 \%$
Analytical System Preparation	Instrument parameters are outlined in each method.	See Methods 218.2 and 206.2.
Matrix Duplicate	Once per 20 samples	$\pm 10 \%$
Laboratory Duplicates	Once per 20 samples	$\pm 10 \%$

14. Action Required if Limits are Exceeded

Recalibrate analysis instrument as indicated and reassay or call Bruce Woods, QA chemist, at 206-553-1193 (FTS 399-1193) or Gerald Muth, CLP DPO, at 206-871-0748 (FTS 390-1282), immediately, for problem resolution.

Please return this request to the Sample Management Office as soon as possible to expedite processing of your request for special analytical services. Should you have any questions or need any assistance, please contact your Regional representative at the Sample Management Office.



# METALS

Project Name: RIDGEFIELD BRICK Project Code: HWD-127A Account Code: AGDD 3A

**Matrix Codes** (circle one only)

- 10 Water - Total  
11 Water - Dissolved  
17 Liquid for TCLP  
40 Sediment/Soil  
45 Semi-Solid/Sludge  
47 Sediment for TCLP  
70 Tissue  
80 Oil/Solvent  
00 Other - see reverse

### Sample Numbers

Sample Numbers	
91 13 0151	
91 13 0153	
91 13 0154	
91 13 0159	
91 13 0163	
91 13 0165	
91 13 0167	
91 13 0169	

[illegible]

Check the Work Group (see reverse for additional WG's) and/or specific metals below for each sample (please be sure metals checked coincide with those identified in the sampling and analysis plan).

<p> <b>Analy/Comp</b>  <b>Init/Date</b> </p>	<p> <b>1</b>  <b>2</b>  <b>3</b>  <b>4</b>  <b>5</b>  <b>6</b>  <b>7</b>  <b>8</b>  <b>9</b>  <b>10</b>  <b>11</b>  <b>12</b>  <b>13</b>  <b>14</b>  <b>15</b>  <b>16</b>  <b>17</b>  <b>18</b>  <b>19</b>  <b>20</b>  <b>21</b>  <b>22</b>  <b>23</b>  <b>24</b>  <b>25</b>  <b>26</b>  <b>27</b>  <b>28</b>  <b>29</b>  <b>30</b>  <b>31</b>  <b>32</b>  <b>33</b>  <b>34</b>  <b>35</b>  <b>36</b>  <b>37</b>  <b>38</b>  <b>39</b>  <b>40</b>  <b>41</b>  <b>42</b>  <b>43</b>  <b>44</b>  <b>45</b>  <b>46</b>  <b>47</b>  <b>48</b>  <b>49</b>  <b>50</b>  <b>51</b>  <b>52</b>  <b>53</b>  <b>54</b>  <b>55</b>  <b>56</b>  <b>57</b>  <b>58</b>  <b>59</b>  <b>60</b>  <b>61</b>  <b>62</b>  <b>63</b>  <b>64</b>  <b>65</b>  <b>66</b>  <b>67</b>  <b>68</b>  <b>69</b>  <b>70</b>  <b>71</b>  <b>72</b>  <b>73</b>  <b>74</b>  <b>75</b>  <b>76</b>  <b>77</b>  <b>78</b>  <b>79</b>  <b>80</b>  <b>81</b>  <b>82</b>  <b>83</b>  <b>84</b>  <b>85</b>  <b>86</b>  <b>87</b>  <b>88</b>  <b>89</b>  <b>90</b>  <b>91</b>  <b>92</b>  <b>93</b>  <b>94</b>  <b>95</b>  <b>96</b>  <b>97</b>  <b>98</b>  <b>99</b>  <b>100</b> </p>
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**Workgroups (WG):**

WG 19 CLP In. Anal.  
WG 32 Metals - DW-RCRA

### Specific Metals:

Aluminum	Al
Antimony	Sb
Arsenic	As
Barium	Ba
Beryllium	Be
Cadmium	Cd
Calcium	Ca
Chromium	Cr
Cobalt	Co
Copper	Cu
Iron	Fe
Lead	Pb
Magnesium	Mg
Manganese	Mn
Mercury	Hg
Molybdenum	Mo
Nickel	Ni
Potassium	K
Selenium	Se
Silver	Ag
Sodium	Na
Thallium	Tl
Vanadium	V
Zinc	Zn
*Hexavalent Chromium	Cr+6

[illegible]

\*The Laboratory requires advance notice prior to receiving samples for Cr+6

Save samples after analysis? **NONE** **SOME\*\*** **ALL\*\*** (If **SOME**, circle sample numbers)

Special limits, methods and comments: ARSENIC BY EPA METHOD 206.2  
CHROMIUM BY EPA METHOD 218.2 (EPA-600/4-79-020)

Requester's Signature

Date

**\*\* If samples should be saved, why?**

**Note:** Any element may be determined by AA or ICP.

Sampled 3/27-3/28/91 Received 3/29/91

